

Product datasheet for **MR207647**

Ppm1b (BC018556) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1b (BC018556) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppm1b
Synonyms:	PP2CB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207647 representing BC018556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTGCATTTTTGGATAAACCCAAAACCTGAAAAGCACAAATGCTCACGGTGCTGGGAATGGTCTCGCTT
 ATGGCCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGATGCACACACAGCTGTTGTGGGTATTCC
 TCACGGCTTGGACAACCTGGTCGTTTTTGCAGTTTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
 TGTTCAACACATCTATTAGAACACATCACCACCAATGAAGACTTCAGGGCAGCTGACAAAATCAGGCTCTG
 CTCTCGAGCCTTCAGTAGAAAGTGTGAAGACTGGTATCAGGACTGGCTTTTTGAAAATTGATGAATATAT
 GCGTAACCTCTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCGACTGCAGTGGGCGTGATGGTCTCC
 CCTACACACATGTAACCTCACTGTGGTGACTCTCGAGCTGTTCTGTGTAGGAACGGACAGGTCTGCT
 TTTCTACCCAGGATCACAAACCTTGTAAATCCAGTGGAGAAGGAGCGCATCCAAAACGCAGGAGGCAGTGT
 GATGATCCAGCGTGAACGGCTCACTAGCAGTGTCTCGGCTCTGGGGACTATGACTACAAGTGTGTG
 GATGGCAAGGGCCCTACAGAGCAGCTTGTTCCTCAGAGCCTGAGGTTTATGAGATTGTGAGAGCAGAAG
 AGGATGAGTTTGTCTTGGCCTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT
 TGTTAAGTCTAGGCTTGGGTGTCGGACGACCTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
 CATAAGGGAAGTCGAGATAACATGAGTGTGTATTAGTTTGTCTTTCAAATGCCCAAGGTCTCAGAGG
 AAGCCGTGAAGAGAGATTAGAGTTGGATAAGCACTTGGAAATCACGGGTTGAAGAAATCATGCAGAAGTC
 TGGGGAGGAAGGAATGCCTGATCTTGCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCGAATTTA
 CCTCCCGTGGAGTCTCGTGGCAAGCGCCATGTTATTGAAGCTGTTTATAGTAGACTTAATCCACACA
 AAGACAATGATGGGGCCCTCCGATGAAGCAGAGGAAGGTGGATCACAGGGGAAATGGTGGAACTCTCAG
 GCAAAATGAGAGTTAACCATAGGGGAAACTACCGACAGCTGCTGGAGGAGATGCTGACTAGTTACAGGCTA
 GCTAAAGTAGAGGGAAGAGAGAGCCGGCTGACCCAGCGGCTGCAGCTGCTTCTCGAACAGTGTGGTG
 GAAACCCAGTGGCAATGCAGGAGAGAGACTGAGGGTGGTCTGCTGGCCTAGACAGCCGTAATGAAGA
 TGCAGGGACAAAGAGGAGTGTGAAAATATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207647 representing BC018556
 Red=Cloning site Green=Tags(s)

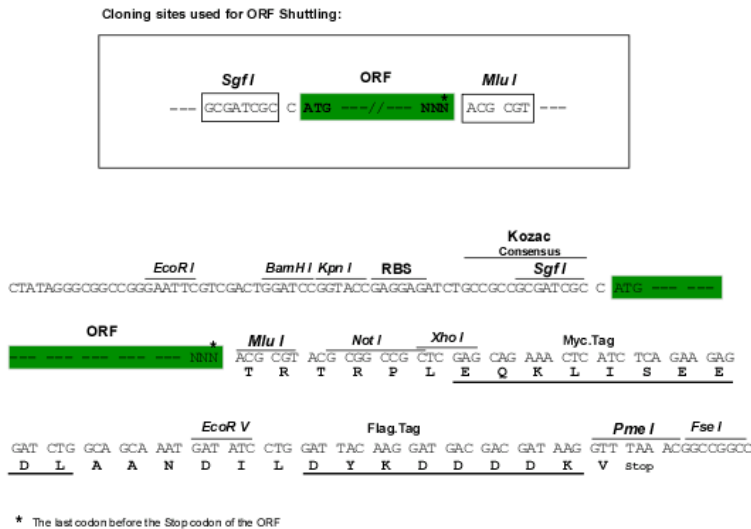
MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLDNWSFFAVYDGHAGSRVANY
 CSTHLLLEHITTNEDEFRAADKSGSALEPSVESVKTGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMVS
 PTHMYFINCGDSRAVLCRNGQVCFSTQDHKPCNPVEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
 DGKGPTEQLVSPEPEVYEIVRAEDEFVVLACDGIWDVMSNEELCEFVKSRLVSDDLLENVCNWWVDTCL
 HKGSRDNMSVVLVCFSNAPKVSEEAVKRDELDKHLESRVEEIMQKSGEEMPDLAHVMRILSAENIPNL
 PPGGGLAGKRHVIEAVYSRLNPHKDNDGASDEAEEGSQGKLVLEALRQMRVNHARGNYRQLLEEMLTSYRL
 AKVEGEESPADPAAAAAASSNSDGGNPVAMQERDTEGGPAGLDSRNEAGTKRSAENI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC018556

ORF Size: 1431 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC018556.1](#)

RefSeq Size: 2365 bp

RefSeq ORF: 1433 bp

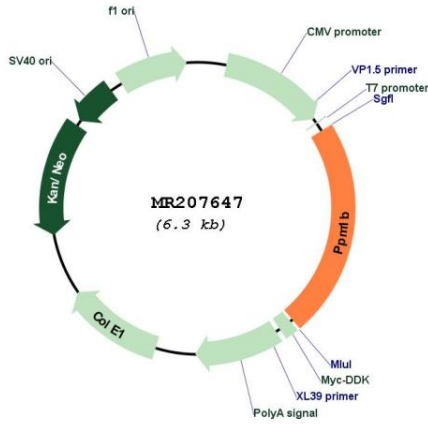
Locus ID: 19043

Cytogenetics: 17 55.13 cM

MW: 86.7 kDa

Gene Summary: Enzyme with a broad specificity. Dephosphorylates PRKAA1 and PRKAA2. Inhibits TBK1-mediated antiviral signaling by dephosphorylating it at 'Ser-172'. Plays an important role in the termination of TNF-alpha-mediated NF-kappa-B activation through dephosphorylating and inactivating IKBKB/IKKB.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207647